## In the Claims:

Please amend the claims as follows:



(currently amended) A computer-implemented method comprising:
consolidating data organized into records and items, such that each record has a value for
each item, into a plurality of groups <u>summarized by a plurality of probability models derived</u>
from item values;

based on the plurality of groups, determining a predicted vote for a particular record and a particular item using a similarity scoring approach that reflects likelihood similarity between at least one probability model that characterizes an essentially complete summarizes one group of the plurality of groups and the particular record; and

outputting the predicted vote for the particular record and the particular item.

- 2. (original) The method of claim 1, wherein consolidating the data into the plurality of groups comprises consolidating the data into a plurality of clusters.
- 3. (original) The method of claim 1, wherein consolidating the data into the plurality of groups comprises consolidating the data into a plurality of descriptors.
- 4. (original) The method of claim 1, wherein each record is referred to as at least one of: a row, and a user.
- 5. (original) The method of claim 1, wherein each item is referred to as at least one of: a column, and a dimension.
- 6. (original) The method of claim 1, wherein each record comprises a user, and each item comprises a product, such that determining the predicted vote for the particular record and the particular item comprises determining whether a particular user will purchase a particular product.

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7. (original) The method of claim 1, wherein each record comprises a user, and each item comprises a web page, such that determining the predicted vote for the particular record and the particular item comprises determining whether a particular user will view a particular web page.

## Claims 8-9 (cancelled)

10. (currently amended) A computer-readable medium having instructions stored thereon for execution by a processor to perform a method comprising:

consolidating data organized into records and items, such that each record has a value for each item, into a plurality of groups summarized by a plurality of probability models derived from item values; and

based on the plurality of groups, determining a predicted vote for a particular record and a particular item using a likelihood similarity scoring approach or a correlation similarity scoring approach between the particular record and at-least one probability model that eharacterizes an essentially complete summarizes one group of the plurality of groups.

- 11. (original) The medium of claim 10, the method further comprising outputting the predicted vote for the particular record and the particular item.
- 12. (original) The medium of claim 10, wherein consolidating the data into the plurality of groups comprises consolidating the data into one of: a plurality of clusters, and a plurality of descriptors.
- 13. (original) The medium of claim 10, wherein each record is referred to as at least one of: a row, and a user.
- 14. (original) The medium of claim 10, wherein each item is referred to as at least one of: a column, and a dimension.

Claim 15 (cancelled)

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16. (currently amended) A computer-implemented method operable on data organized into records and items, such each record has a value for each item, the data also consolidated into a plurality of clusters summarized by a plurality of probability models derived from item values, the method comprising:

based on the plurality of clusters, determining a predicted vote for a particular record and a particular item using a likelihood similarity scoring approach or a correlation similarity scoring approach between the particular record and at least one probability model that characterizes an essentially complete summarizes one cluster of the plurality of clusters; and

outputting the predicted vote for the particular record and the particular item.

- 17. (original) The method of claim 16, wherein each record comprises a user, and each item comprises a product, such that determining the predicted vote for the particular record and the particular item comprises determining whether a particular user will purchase a particular product.
- 18. (original) The method of claim 16, wherein each record comprises a user, and each item comprises a web page, such that determining the predicted vote for the particular record and the particular item comprises determining whether a particular user will view a particular web page.

## Claim 19 (previously cancelled)

20. (currently amended) A computer-implemented method operable on data organized into records and items, such each record has a value for each item, the data also consolidated into a plurality of descriptors summarized by a plurality of probability models derived from item values, the method comprising:

based on the plurality of descriptors, determining a predicted vote for a particular record and a particular item using a correlation similarity scoring approach that finds a similarity between the particular record and one probability model that characterizes an essentially emplete summarizes one descriptor of the plurality of descriptors; and

outputting the predicted vote for the particular record and the particular item.

21. (original) The method of claim 20, wherein each record comprises a user, and each item comprises a product, such that determining the predicted vote for the particular record and the particular item comprises determining whether a particular user will purchase a particular product.

22. (original) The method of claim 20, wherein each record comprises a user, and each item comprises a web page, such that determining the predicted vote for the particular record and the particular item comprises determining whether a particular user will view a particular web page.

## Claim 23 (cancelled)

- 24. (previously presented) The method of claim 1 wherein the particular record is contained within the records that are organized into groups and wherein a probability that a given group contains the particular record is used to reflect likelihood similarity.
- 25. (previously presented) The computer-readable medium of claim 10 wherein the particular record is contained within the records that are organized into groups and wherein a probability that a given group contains the particular record is used as the correlation similarity.
- 26. (previously presented) The method of claim 16 wherein the particular record is contained within the records that are consolidated into clusters and wherein a probability that a given cluster contains the particular record is used to reflect correlation similarity scoring.
- 27. (previously presented) The computer implemented method of claim 20 wherein the particular record is contained within the records that are consolidated into clusters and wherein a probability that a given cluster contains the particular record is used to find similarity between the particular record and one of the plurality of clusters.
  - 28. (currently amended) A computer-implemented method comprising: consolidating data organized into records and items, such that each record has a value for

each item, into a plurality of groups summarized by a plurality of probability models derived from item values;

based on the plurality of groups, determining a predicted vote for a particular record and a particular item using a similarity scoring approach that reflects correlation similarity between at-least one probability model that characterizes an essentially-complete summarizes one group of the plurality of groups and the particular record; and

outputting the predicted vote for the particular record and the particular item.

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- 29. (new) The method of claim 1, wherein said probability model for a group is defined by a plurality of data points having a value in the range of [0,1] determined from a plurality of data records from the group which indicate a probability of observing a value of [1] for an item within the group.
- 30. (new) The computer readable medium of claim 10, wherein said probability model for a group is defined by a plurality of data elements having a value in the range of [0,1] determined from a plurality of data records from the group which indicate a probability of observing a value of [1] for an item within the group.
- 31. (new) The method of claim 16, wherein said probability model for a cluster is defined by a plurality of data elements having a value in the range of [0,1] determined from a plurality of data records from the cluster points which indicate a probability of observing a value of [1] for an item within the group.
- 32. (new) The method of claim 20, wherein said probability model for a descriptor comprises a plurality of data elements having a value in the range of [0,1] determined from a plurality of data records that define the descriptor which indicate a probability of observing a value of [1] for an item.
- 33. (new) The method of claim 28, wherein said probability model for a group comprises a plurality of data elements having a value in the range of [0,1] determined from a plurality of data records that define the group which indicate a probability of observing a value

of [1] for an item.